

MT-959599

2.2 - 2.4 GHz, 25.5dBi, S band Monopulse Flat Panel Antenna

Electrical

	S Band Monopulse Ant.	S Band Flat Panel Ant.
Frequency	2.2 - 2.4 GHz	2.2 - 2.4 GHz
Gain	25.0 dBi min 25.5 dBi typ	12 dBi typ
VSWR	2.0 : 1 max sum channel 2.0 : 1 max diff. channel	1.7 : 1 typ 2.0 : 1 max
3 dB Beam Width		
Azimuth	11.5° ± 0.5°	60°
Elevation	5.5° ± 0.5°	30°
Polarization	Linear Vertical	Linear Vertical
Side Lobe Level	-12 dB max	-10 dB max
Cross Polarization	-25 dB max	-15 dB max
F/B Ratio	-40 dB max	-25 dB max
Null Depth	30 dB	-
Azimuth Tracking Accuracy	±1.0° max	-
Input Impedance	50 Ω	
Input Power	50 W CW max	
Lightning Protection	DC grounded	

Mechanical

Dimensions (LxWxH)	1200 x 940 x 197 mm max
Weight	20 kg max
Connector	3 x N type female Sum, Diff , S Band Flat Panel
Radome	Plastic
Base Plate	Aluminum with chemical conversion coating
Color	Polyurethane PANTONE 147C

Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature Operating	IEC 68-2-1	3 hr	-32°C	
High Temperature Operating	IEC 68-2-2	3 hr	+50°C	
Temp. Cycling Non Operating	IEC 68-2-14	1 hr	-40°C +71°C	3 Cycles
Fungus	MIL-HDBK-454 Req. 4			
Shock Mechanical	IEC 60721-3-4	20g/11 milliseconds		
Humidity	ETSI EN300-2-4 T4.1E	144 h	65°C	95%
Water Tightness	IEC 529			IP67
Solar Radiation	Mil-STD-810F method 505.4			
Rain	MIL-STD-810F Method 506.4			procedure III
Salt Spray	MIL-STD-810F Method 509.4	48 Hours		
Wind				20m/s ± 5m/s gust

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Altitude (Non Operating)				-1.500 to 40.000 Ft
Sand	MIL-STD-810F			concentration: 1.1gr/qm±0.25
Dust	MIL-STD-810F			concentration 1gr/qm

Spare parts:

AO43931400M- Hybrid

AO43931600M – Antenna 2.2-2.4GHz

AO43931000M – Antenna 2.2-2.4GHz (Bottom Antenna)

AO43931200M - Antenna 2.2-2.4GHz (Top Antenna)

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